Special points of interest:

- Swing Space in Kettering, OH
- Future of the Aeromedical Library
- AFRL Core Process 4

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Volume 2 Issue 1

March 2010

Commander's Commentary

Col Charles Fisher, Jr.

In this, our second US Air Force School of Aerospace Medicine newsletter, we highlight the education mission of USAFSAM. We have three major mission thrusts: education, consultation and research. Most graduates and visitors to USAFSAM are at least somewhat familiar with the education mission, a vast endeavor that includes the entire career of aeromedical Airmen. USAFSAM is an initial technical training school starting with recent graduates from Lackland that look oh so young, and graduating within weeks young men and women with the skills and confidence that many college graduates would envy. We launch the careers of young officers including our BEE, Public Health, Physiology Officers and Flight Surgeons. Later we sustain their training throughout their careers with continuing education by seminar, formal courses and distance learning. At USAFSAM we are particularly proud of our international partners who we train both inresidence in aeromedical evacuation, aerospace medicine and critical care skills and in their own homeland where we assist nations to solve healthcare infrastructure problems or tackle

problems of enormous measure such as HIV/AIDs on a national level.

USAFSAM is also home to our Air Force's combat medical skills training. Air Force medics, surgical teams and medical leaders from around the globe receive their initial training on the Air Force EMEDS equipment in a demanding in-residence course. Air Force, joint and civilian partners are trained in the demanding skills needed for aeromedical evacuation at USAFSAM, and the most advanced critical care in the air teams in history are trained at USAFSAM. The USAFSAM C-STARS platforms at St. Louis, Baltimore and Cincinnati provide the ultimate high intensity critical care training and experience for our deploying surgical, critical care and critical care air transport teams. These valuable training platforms also provide a first call capability for joint theater trauma leadership and for critical care aeromedical evacuation response. It is safe to say that a Soldier, Sailor, Airman or Marine injured anywhere in the world was almost certainly been cared for by a graduate of USAFSAM.

By the numbers USAFSAM hosts about 244 students in a typical day; and graduates about 5000 students a year including about 100 sister service students, 120 international students inresidence and 500-900 more graduates of training we offer in their own nation every year. We offer 86 formal courses and are home to 4 Graduate Medical Education programs, 3 residencies and a fellowship. To do so we have about 300 total educational staff of whom 97 are CCAF accredited formal course faculty.

USAFSAM will begin moving our educational courses in bioenvironmental engineering and public health to transient space in Kettering, Ohio in the summer of 2010 and will kick off the first formal courses there in Jan 2011. Later that spring, after the last Brooks classes of flight surgeons, international aeromedical students and A/E student graduates, international & expeditionary medicine and aerospace medicine education departments will move to the massive new complex at Wright-Patterson AFB. During all this, USAFSAM will continue to innovate as we offer a totally new aerospace medicine primary course and as we introduce Initial Contingency Response Training which will prove crucial to homeland and disaster response. USAFSAM will, in the face of a massive relocation, actually increase our training throughout without gaps, as we continue to prepare the world's experts in aerospace and deployment medicine.

This issue introduces a few of the essential elements of USAFSAM's revolutionary training platform, and how we will move forward in today's rapidly changing world.



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Message from the Office of the Dean

By: Col Karen Weis

In December 2010, the Air Force School of Aerospace Medicine (USAFSAM) will begin split operations. An amazing history of aerospace medicine training and research at Brooks Field will come to a close. Due to the immense nature of the move, the academic portions of USAFSAM will move by department. The Bioenvironmental and Public Health departments will move their entire academic portions in the summer and fall of 2010 to begin training students in January 2011 (there will be one bioenvironmental course taught in December 2010). USAFSAM's first courses will not be in our new home on Wright-Patterson AFB, but in a business building at Kettering, Ohio. The building has been converted to accommodate course and consultant requirements.

well as at Kettering. An ingenious timeline for personnel movement has been prepared to

take place prior to student arrival at our new building on Wright-Patterson.



ensure that personnel from the testing area, book distribution, academic affairs, the registrar's office, and distributed learning will be available at both locations to meet customer's needs.



Academic Affairs and the Registrar's Office are diligently preparing to accommodate daily requirements for all courses and classes at Brooks City-Base as After our arrival, and prior to student arrival, the swing space area at Kettering will undergo an affiliation visit by a team from Community College of the Air Force. An additional visit will

The internationally recognized library of Aerospace Medicine will pack up in October 2010 and remain in storage until the summer of 2011 when the new USAFSAM complex will be ready for move in. Admittedly, there will be inconveniences. However, electronic access to journals will be available throughout the move, and librarian support will be available at Kettering and Brooks City-Base throughout split operations. Inter-library loan capability as well as electronic journal access will be maintained.

Admittedly, the plans and preparations for the move are immense. The "swingspace" working group meets biweekly to ensure that we are ready for the move and ready for the students that will arrive to Kettering in Dec 2010 January 2011.

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USAFSAM: The Air Force's Medical Educators

By: Jay Marquart

Flight surgeons, aerospace physiologists, public health and bioenvironmental officers, flight nurses and enlisted specialists - every year, the Air Force and its partners need thousands of skilled medical professionals to fill critical positions.

medicine, finding solutions to the operational needs of today and tomorrow, and preparing new aeromedical experts for future global challenges.

It's a relentless mission, one the command takes seriously. "On a daily basis, we interact with the DoD leadership, community partners, and inter-



With USAFSAM's intense, hands-on approach to education, students in medical specialties ranging from aerospace physiology to public health are able to function effectively in the field immediately upon completing their training programs.

Where does the Air Force find enough people with the expertise for these roles? It trains them itself.

Delivering this training is the United States Air Force School of Aerospace Medicine, or USAF-SAM, located at Brooks City-Base, Texas. Organized under the Air Force Research Laboratory (AFRL) and the 711th Human Performance Wing (711 HPW), the mission of USAFSAM is to be first-call consultants in aerospace national partners to resolve questions of operational health and safety, preventive medicine, and air crew and special operator performance," said USAF-SAM Commander Colonel Charles Fisher, a physician and chief flight surgeon. "We participate in NATO and non-NATO forums in all our functional areas. As a result, we are literally viewed as a resource for the world."

Operating under the university model, USAFSAM emphasizes three areas: education and training, research and technology development, and consultation. But that's where the similarity to a traditional civilian university ends.

Colonel Karen Weis, PhD, USAFSAM's Dean, describes the academic environment as "primarily an Air Force technical training institution with the addition of four Aerospace Medicine residency programs. If you go to a regular university, you learn general information that can be used for many different jobs. We prepare courses and train individuals so they can do a specific job, based on well-defined career field guidelines."

This focus on jobspecific training allows USAF-SAM to use accelerated learning techniques - a necessity because the school trains more than 6,000 students annually. In less than two months, enlisted airmen can advance from new trainees to qualified apprentices in technically complex fields such as bioenvironmental engineering.

"I showed a group of college counselors and presidents who came to us last year what we were able to do in six weeks and they were floored by the amount of knowledge these young men and women were able to absorb in a short period of time," Colonel Fisher said.

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USAFSAM: The Air Force's Medical Educators

Cont From Page 3

USAFSAM builds its courses using the Instructional Systems Development (ISD) framework, a systematic approach to developing, implementing, and evaluating learning instruction. Courses are delivered through various chanship) programs for doctors specializing in aerospace, preventive, occupational, and hyperbaric medicine.

USAFSAM hosts the single largest preventive medicine residency in the United States.

Under BRAC 2005, USAFSAM begins relo-

Motivated students, systematic training, and job-specific education enable USAFSAM to turn out over 6,000 fully qualified new medical professionals each year for critical roles within the Air Force and its partner organizations.

nels: resident courses, non-resident courses (for example, at USAF-SAM's Centers for Sustainment of Trauma and Readiness Skills in Baltimore, Cincinnati, and St. Louis), and computer-based training.

The breadth of instructional programs is even more varied. In addition to apprentice training, USAFSAM provides initial, advanced, and graduate-level education for medical officers ranging from flight surgeons and aeromedical evacuation nurses to aerospace physiologists, bioenvironmental engineers, and public health officers. At the upper extreme are three Graduate Medical Education (residency and fellow-

cating in late 2010 to a state-ofthe-art facility, the Major General Harry G. Armstrong Complex, being built at Wright-Patterson AFB. While the unit looks forward to its new location and the proximity to AFRL and 711 HPW headquarters, the move is not without challenges. Colonel Weis noted that relocation cannot affect the tempo of USAFSAM's mission.

"We have the same requirement in putting out the same number of students, so we will still need to be training students while we get off base at Brooks," Colonel Weis said. "But we are bringing together so

many entities at Wright-Patterson that with the reorg[anization] and pulling us under the 711 HPW, it sets the stage for us to do some very exciting things."

Chief Master Sergeant John Decker, USAFSAM Group Superintendent, sums up the school's training mission and BRAC-related challenges this way: "It is difficult, but we're building the future of our Air Force...and seeing the bright young men and women we are going to hand this Air Force off to... makes it all worthwhile."

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AEROMEDICAL LIBRARY

Past, Present.... And Future at WPAFB

By: Mr. John Whitney

It is unknown exactly when the School of Aviation Medicine established a formal library, but there are books in the current Aeromedical Library collection that contain property stamps from Hazelhurst Field, NY. When the school moved from Hazelhurst Field to Brooks Field, Texas in 1926 there were approximately 2,900 items in the library's collection. The library was moved from Brooks Field to Randolph Field, Texas in 1931, and when it returned to Brooks AFB 28 years later, there were over 60,000 volumes in the library's collection. During the 1960s and 1970s, the library was the hub of an academic campus environment and had an annual budget for serial

subscriptions alone of over \$500,000. The library was integral to the growth of aerospace medicine research during this period.

The library remained an integral part of the School of Aerospace Medicine until December 1990 when it was transferred to the Operations and Support Directorate of the newly created Armstrong Laboratory. While it still supported the School of Aerospace Medicine, the library primarily supported the human centered research of the Armstrong Laboratory. When the Armstrong Laboratory was rolled into the Air Force Research Laboratory in 1997, the Aeromedical Library was placed under the Mission Support Branch of the Directed Energy Bioeffects Division.

During the 1990s and early 2000s there was a shift in the use of the library by students because of a change in course schedules and requirements and the relocation of the schoolhouse from building 180 to building 775.

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"The library
was integral
to the
growth of
aerospace
medicine..."



John Whitney showcases one of the historical books located in the archives of the aeromedical library located in Bldg 155 on Brooks City-Base.

Class Start and Stop Dates

	<u>Course</u>	Last Course at Brooks	First Course at WPAFB
	BIOENVIRONMENTAL ENGINEERING ADVANCED MEASUREMENTS (BEAM)	23 Aug to 3 Sep 2010	06 Dec to 17 Dec 2010
	BIOENVIRONMENTAL ENGINEERING APPRENTICE	8 Jul to 14 Oct 2010	10 Jan to 15 April 2011
	BIOENVIRONMENTAL ENGINEERING	16 Aug to 20 Aug 2010	10 Jan to 14 Jan 2011
CRAFTSMAN TRANING FORCE HEALTH MANAGEMENT		17 May to 20 May 2010	31 Jan to 01 Feb 2011
	PUBLIC HEALTH APPRENTICE	16 July to 08 Oct 2010	03 Jan to 29 Mar 2011
	USAF HEARING CONSERVATION CERTIFICATION	02 Aug to 05 Aug 2010	10 Jan to 13 Jan 2011
	USAF HEARING CONSERVATION RECERTIFICATION	09 Aug to 10 Aug 2010	20 Jan to 21 Jan 2011

AEROMEDICAL LIBRARY

Cont from Page 3

When the schoolhouse transitioned to building 775, the students no longer came to the library during breaks in their schedules. It was during this same period, that staffing reductions and vacancies prevented the library from mounting a vigorous outreach program to increase student usage. The manpower within the library was cut from twelve full-time personnel to five. For almost a decade the library was chronically understaffed.

As an interesting aside, during the mid 1990s, the library was without air conditioning for an entire summer while air handlers were replaced. During this period the collection was inoculated with mold spores. The new units had failed to control humidity in the building which resulted in portions of the library collection experiencing a mold bloom. It took a concerted effort over several years to control the outbreak and clean the infected materials.

Towards the end of the 1990's, an integrated product team was created to address the continuance of the Aeromedical Library at Brooks AFB. A cost model was developed for sustaining the library that distributed the financial support of the library according to population and historical use. In FY 2001, six organizations financially supported the library. Two organizations funded the personnel budget and four organizations funded the operational

budget. The following year, the School of Aerospace Medicine Commander provided a funding line for the library under the school department of administration. This began the reconciliation of the Aeromedical Library and the School of Aerospace Medicine. When the 711th Human Performance Wing stood up in 2008, the Aeromedical Library returned to USAFSAM as part of the Office of the Dean. Three positions and the operational budget are currently funded



by USAFSAM. Two full time and four part time positions that are moving to Ft Sam Houston under BRAC are funded by 711 HPW/RHD. It was unclear during early BRAC meetings if the school would have a library at Wright-Patterson AFB. The library director, Mr. Joseph Franzello, mounted a concerted effort to have a library included in what was then being called the Institute of Aviation Medicine. The 311 HSW and USAFSAM advocated for the library and it was eventually included in BRAC planning. The Learning Resources Center is located in USAFSAM's new home in HPW South Building.

In the near future, the
Aeromedical Library will be
reconstituted into the School of
Aerospace Medicine's Learning
Resources Center, when its
collection is packed and moved to
Wright-Patterson AFB, Ohio.
During the months that the collection is unavailable, staff at Brooks
and Wright-Patterson will provide
limited interlibrary loan support to
USAFSAM personnel. Electronic
products will be available through
the Air Force Medical Service
Knowledge Exchange, the

Defense Technical Information Service, and the library's Daedalus portal. When the Learning Resources Center opens at Wright-Patterson AFB, it will carry on the tradition of information availability. A new USAF-SAM librarian, Mr. Steven Grove, has been hired to move the collection from Brooks City-Base to Wright-Patterson AFB. Mr. Grove

has been a librarian for over 25 years. He is a medical librarian with an immense knowledge of library consortia in Ohio. This is important as we leave Texas and the network of libraries we have been working with for so long. Mr. Grove has the background to build a new network of library partners on Wright-Patterson AFB, in Dayton, and throughout Ohio. We are confident that the **USAFSAM Learning Resources** Center will continue to have exceptional access to information required by USAFSAM to perform its clinical, research, and education missions.

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Kettering "Swing Space" Updates

SMSgt John Howell

As the USAF School of Aerospace Medicine's move to Wright-Patterson AFB approaches, one of the realities of a move of this size is that it has to be completed in stages. One of these stages is going to involve the use of a temporary location in Ohio at the Kettering Office Park (KOP), BLDG 1050, informally dubbed "swing space".

The design of this space has been approved and we are now moving forward toward construction. All requirements to outfit this area have also been identified and are being worked aggressively by the 711 HPW and the 88 ABW to ensure the facility is up to the required standards and that we are ready to execute USAFSAM's courses on schedule.

Swing space meetings specifically for KOP are held every 2 weeks. These meetings keep the various departments focused and

involved in this transition process. Additionally, it acts as an information clearing house for the POC's.

One area of concern has been the actual transition from KOP to the new complex. For that transition, a plan will need to be developed and executed as we have a clearer understanding of when the new complex will be available for occupation.



Picture from http://www.bing.com/maps/?

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AFRL Core Process 4

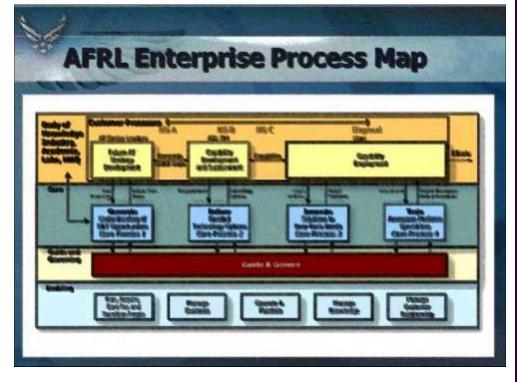


By: Colonel Karen Weis

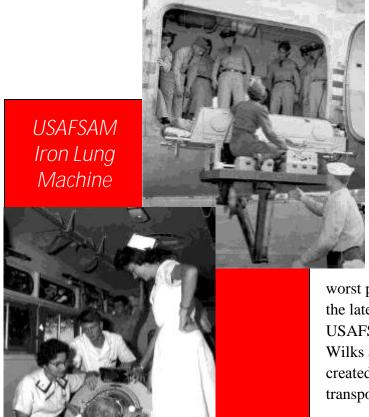
Beginning in October 2004, AFRL endeavored to complete a **Business Process Reengineering** Process, based on the theory that everything an Enterprise "should" be doing can be described in terms of business processes, or "organized groups of related activities that together create a result valued by customers." (Michael Hammer, 2001) The AFSO21 program was adopted in order to streamline business practices and become a process-driven organization, where "process" entails a stream of end-to-end work creating a result that customer's value. The result, the AFRL Enterprise Process established in May 2005, is a model describing the critical elements of work that AFRL must accomplish to bring value to its customers, including its primary inputs, outputs, and relationships. AFRL Instruction 90 -104 "AFRL Enterprise Process Model" describes the results of

this endeavor. There are four primary Core Processes outlined within this instruction. Core Process 4 was established with the re-alignment of USAFSAM within AFRL. Colonel Karen Weis was appointed the Core Process Owner, and Dr. Sharon Holcomb is the Core Process Lead. A team of individuals, representing key aspects of the Core Process were invited to join the Core Process 4 working group. In July 2009, the first meeting was held to outline the level 1 process. The members include, Col Mike Farrell, Mr. Kevin Hairston, Ms. Pat Maples, MSgt James Bryson, and Maj Robert Eninger. Since our initial meeting in July, we have outlined level 1 and level 2 processes and have begun to write the AFRLI,

an instruction describing our process of training enlisted and officer personnel in the Public Health, Bioenvironmental, Aerospace Physiology and Aerospace Medicine career fields. All individuals involved in the working group have described the excitement they have felt as individual "departmental" procedures are brought together to build one detailed, consistent process for the education and training of aerospace medicine specialists. Outlining and documenting the Core Process improves day-to-day operations because of a formal recognition and understanding of what goes into developing a course, getting students in the seats, long before any instruction ever occurs.



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Iron Lung

By: Rudy Purificato 311ABG Historian

One of the greatest medical technological contributions to early aeromedical evacuation was made by USAF-SAM scientists during the height of America's

worst polio epidemic during the late 1940s and early 1950s. USAFSAM scientists Syrrel Wilks and J.F. Tomashefski created the world's first air transportable iron lung in 1952. Adapted from Philip Drinker and Louis Shaw's 1928 invention of a large metal tank used to assist respiration in infantile paralysis patients, the 'SAM' lung was the only air-worthy transportable iron lung in the U.S. during an epidemic that paralyzed half a million people and crippled countless children.

End of Year Graduation Statistics:

This chart compares FY 08 to FY 09

Department	FY08 Graduates	FY09 Graduates
Dental	77	62
Advanced Aerospace Medicine for International Medical Officers (ETO)	10	7
AF Expeditionary Medical Skills Institute (ETS)	735	816
Contingency Operations (ETT)	1912	1587
Aerospace Medicine Consultation (FEC)	0	37
Aerospace Medicine Education (FEE)	542	578
Aerospace Medicine Education Branch (FEEE)	251	403
Aerospace Physiology (FEEP)	212	199
Hyperbaric Care Supplemental Diver/Hyperbaric Technician Course	34	21
Occupational and Environmental Health Education (OED)	432	435
Public Health Education (PHD)	935	846
Grand Total	5140	4991

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What is USAFSAM going to look like at WPAFB?

By: John Garland

The changes in what USAFSAM looks like at Wright-Patterson AFB, OH will depend on what part of USAFSAM you are looking at.

Those sending in clinical, radiological/Dosimetry, or environmental samples or contacting USAFSAM for consultative services will find us just as easy or possibly even easier to contact when we are in Ohio. A single organizational toll free phone number is being established to provide continuity during the move.

However, students and

customers visiting USAFSAM in person will find the main difference as how the new campus will be more spread out. At Brooks City-Base; Sidney's dining hall, the dormitory, the field training site, and lodging were literally walking distance from the academic areas. At WPAFB the main USAFSAM buildings, the academic area, consult services, centrifuge and altitude training are all located in Area B. The same area as the Air Force Museum. However, the billeting office, the field training location(s), and the 88th Medical Group are located in Area A. The same area as HQ AFMC and the working runway. Finally, the dining hall and

the enlisted dormitories are located in the Kitty Hawk area. The area where the Commissary and BX are located. Students and customers should receive reporting instructions and information concerning transportation in advance.

The biggest change will be the state-of-the-art facilities, laboratories, and classrooms that USAFSAM will be proud to be housed in.







Area A, B, and C Map



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Congratulations to the USAFSAM Award Winners!

711 HPW Air Force Medical Service (AFMS) Award Winners

LtCol Carl Freeman	- IEC (St Louis CSTARS)	- USAF Surgical Excellence Award
Lt Col Jay A. Vietas*	- USAFSAM Det 3	- Outstanding Industrial Hygienist of the Year
Maj Robert J. Eninger*	- OED Education	- Outstanding Staff Bioenvironmental Engineer of the Year
Maj Mark W. Lehman*	- Epidemiology Consult Service	- Lt Col George M. Prascsak, Jr. Public Health Staff Officer of the Year
Maj Roberta A. Lenski	- USAFSAM Det 3	- The Colonel John L. Binder Medical Readiness Officer of the Year
Maj Ruben A. Matos	- USAFSAM/CCA	- The Brigadier General Patricia C. Lewis Commitment to Service Award
Capt Julie Kena	- Epidemiology Laboratory Services	- USAF Clinical Laboratory Manager of the Year
Capt David A. Whitehorn*	- Expeditionary Medical Skills (ETS))- Medical Surgical Nurse of the Year
MSgt Chad C. Ballance*	- CBRN-P Operations (OEHRC)	- Outstanding Staff Bioenvironmental Engineering Technician of the Year
MSgt Stephen D. Christian	- Epidemiology Laboratory Services	- USAF Laboratory Senior NCO of the Year
MSgt Edward T. Garza	- USAFSAM Det 1	- Dental Senior NCO of the Year
MSgt Kelly G. LaCross*	- Public Health Education	- Lt Col George M. Prascsak, Jr. Public Health Staff NCO of the Year
MSgt Lisa M. Pickett	- Aerospace Medicine Consultation	- The Air Force Cardiopulmonary Laboratory Senior NCO of the Year
TSgt Robert G. Blackburn	- Expeditionary Medical Skills (ETS))- Brig Gen Sarah P. Wells Award for Outstanding NCO
SSgt Lebaron M. King	- Aerospace Medicine Consultation	- The John Salustro Memorial Award for Cardiopulmonary Excellence
SrA Charles A. Dorsey	- Analytical Services (OEHTA)	- USAF Laboratory Airman of the Year
Ms. Annette Compton*	- Epidemiology Laboratory Services	- USAF Clinical Laboratory Civilian Scientist of the Year
Mr. Don Salgado	- USAFSAM Det 3	- Medical Information Services Civilian of the Year
Det 3, USAF School of Aero USAFSAM Public Health Ep		The Team Aerospace AwardUSAF Category I Laboratory Team Award
	onsult Service (USAFSAM Det 3)	- Outstanding Public Health Team of the Year

* Also won at the Air Force Materiel Command (AFMC) level and will compete at the AF level

711 HPW 4th Qtr Award Winners

- The Outstanding Bioenvironmental

Engineering Team of the Year

Maj Kimberly D. Reed- Defense Institute for Medical Operations DIMO- FGOMSgt Shawn T. Petro- OED Education- Senior NCOTSgt Christopher M. Caswell -OED Education- NCOSrA Charita Williams- Epidemiology Laboratory Services (PHE)- Airman

USAFSAM Risk Analysis Branch

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UNITED STATES AIR FORCE SCHOOL OF AEROSPACE MEDICINE

2513 Kennedy Circle Brooks City-Base, TX, 78235-5116 (Commercial) 210-536-2001 (DSN) 240-2001

24 Hour ESOH Service Center

1-888-232-ESOH Comm. 210-536-5454 (DSN 240)

Epidemiological/ Outbreak Support (210)-536±3471 (DSN 240)

Hyperbaric Emergencies

(210) 292-3483 or 5990 (DSN 554)

Aeromedical Consultation

(210) 536-2811 (DSN 240)

Course Listing/ Public Website

http:// airforcemedicine.afms.mil



Events

Upcoming Events

8-12 Mar 11 Mar 18 Mar

23 Mar 10

25 Mar 10

9-13 May

- European Aerospace Medicine Conference
- AFRL Director's Call (0900, Brooks Gym) POC: Lt Bolander
- Newcomer's Orientation POC: Ms. Myles
- ALS Graduation (1800, Gateway Club LAFB)
- 59MDW Aero Evacuation (AE) Tour POC: Cpt DiMaggio
- Aerospace Medicine Assn Conference (Phoenix, AZ)



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http://www.wpafb.af.mil/afrl/711hpw/usafsam.asp